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That Which Is Claimed Is:

A compound of the formula:

where X is carbon nitrogen bonded to a substituent species characterized as having a sigma m value greater than 0 or less than 0; X' is nitrogen characterized as having a sigma m valve greater than 0 or less than 0; A, A' and A" individually are substituent species characterized as having a sigma m value greater than 0, less than 0 or 0; m is an integer and n is an integer such that the sum of m plus n is 1, 2, 3, 4, 5, 6, 7, or 8; E^I , E^{II} , E^{II} , E^{IV} , E^V and E^{VI} individually represent hydrogen, lower alkyl or halo substituted lower alkyl, such that at least one of E^I , E^{II} , E^{II} , E^{IV} , E^V and E^{VI} is not hydrogen; Z' and Z'' individually are hydrogen or lower alkyl; and the wavy line in the structure indicates that the compound can have a cis (Z) or trans (E) form.

- 2. The method of Claim 1 whereby the compound has the trans (E) form.
- The compound of Claim 1 wherein A is hydrogen.
- 4. The compound of Claim 1 wherein A, A' and A" are all hydrogen.
- 5. The compound of Claim 1 wherein 1 or 2 of the substituents designated as E^I , E^{II} , E^{II} , E^{IV} , E^V and E^{VI} are non-hydrogen substituents.
- The compound of Claim 1 wherein m plus n is 2 or 3.
- 7. The compound of Claim 1 wherein at least one of Z' and Z'' are hydrogen.

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9. The compound of Claim 1 selected from the group consisting of (4E)-N-methyl-5-(3-pyridyl)-4-penten-2-amine, (4E)-N-methyl-5-(5-pyrimidinyl)-4-penten-2-amine, (4E)-N-methyl-5-(6-amino-5-methyl-3-pyridyl)-4-penten-2-amine, (2R)-(4E)-N-methyl-5-(3-pyridyl)-4-penten-2-amine, (2R)-(4E)-N-methyl-5-(5-isopropoxy-3-pyridyl)-4-penten-2-amine, (4E)-N-methyl-5-(5-isopropoxy-3-pyridyl)-4-penten-2-amine, (4E)-N-methyl-5-(5-isopropoxy-3-pyridyl)-4-penten-2-amine, (4E)-N-methyl-5-(5-isopropoxy-3-pyridyl)-4-penten-2-amine, and (2S)-(4E)-N-methyl-5-(5-isopropoxy-3-pyridyl)-4-penten-2-amine.

10. A compound of the formula:

$$\begin{array}{c|c} A' & E' \\ \hline X & A' & C \\ \hline X & A' & C \\ \hline X' & A & E'' & C \\ \hline X'' & A'' & C \\ \hline X'' & C \\ \hline$$

where X and X' are individually nitrogen or carbon bonded to a substituent species characterized as having a sigma m value greater than 0, less than 0 or 0; A, A' and A'' individually are substituent species characterized as having a sigma m value greater than 0, less than 0 or 0; m is an integer and n is an integer such that the sum of m plus n is 1, 2, 3, 4, 5, 6, 7, or 8; E^{I} , E^{II} , E^{IV} , E^{V} and E^{VI} individually represent hydrogen, lower alkyl or halo substituted lower alkyl, such that at least one of E^{I} , E^{II} , E^{IV} , E^{V} and E^{VI} is not hydrogen and with the proviso that E^{III} , E^{IV} , E^{V} and E^{VI} are selected to provide a chiral center having an S configuration; Z' and Z'' individually are hydrogen or lower alkyl; and the wavy line in the structure indicates that the compound can have a cis (Z) or trans (E) form.

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where X and X' are individually nitrogen or carbon bonded to a substituent species characterized as having a sigma m value greater than 0, less than 0 or; A, A' and A'' individually are substituent species characterized as having a sigma m value greater than 0, less than 0 or 0; m is an integer and n is an integer such that the sum of m plus n is 1, 2, 3, 4, 5, 6, 7, or 8; E^{I} , E^{II} , E^{II} , E^{IV} , E^{V} and E^{VI} individually represent hydrogen, lower alkyl or halo substituted lower alkyl, such that at least one of E^{I} , E^{II} , E^{IW} , E^{V} and E^{VI} is not hydrogen and with the proviso that E^{III} , E^{IV} , E^{V} and E^{VI} are selected to provide a chiral center having a R configuration; Z^{I} and $Z^{I'}$ individually are hydrogen or lower alkyl; and the wavy line in the structure indicates that the compound can have a cis (Z) or trans (E) form.